Mobile Application Development in Android, CSC 5991, Section 6
Mondays and Wednesdays, 6pm-7:20pm, Spring 2016

Faculty contact information:
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Course Description:
This course covers the primary aspects of application development for mobile devices running the Android operating system. It assumes a working knowledge of the Java programming language.

Credit Hours:
3

Prerequisite:

Co-requisites:

Text(s) Book:
NA

Computer Programs:
Android Studio

Course contents:
Android overview
Android development environment
Android application creation
Android application project structure
Activity life cycle
Layouts, part 1
Controls, part 1
Toast
Debugging
Dialog boxes
Layouts, part 2
Controls, part 2
Manifest file
Intents
Menus
Attributes
Screen units
Screen sizes and densities
Layouts, part 3
Drawables
Icons
Strings
Colors
Activity data sharing
Styles
Timer tasks
Threads
Handlers
Global Positioning System receiver
Voice synthesis
Camera
Short Message Service
Database
Internet
Application marketing

Laboratory (lab location)
NA

Course Learning Objectives:

The course learning objectives are skills and abilities students should have acquired by the end of the course.

Upon successful completion of this class, the student will be able to:

<table>
<thead>
<tr>
<th>#</th>
<th>CSC 5991 Course learning Objectives</th>
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<tbody>
<tr>
<td>1</td>
<td>Write, edit, test, and run an Android application using Eclipse.</td>
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<tr>
<td>2</td>
<td>Understand the Android life cycle.</td>
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<td>3</td>
<td>Create an interactive interface with multiple controls.</td>
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<td>4</td>
<td>Provide user feedback using multiple media.</td>
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<td>5</td>
<td>Draft the appropriate uses and permissions in the manifest file.</td>
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<td>6</td>
<td>Share data among multiple screens within the application.</td>
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<tr>
<td>7</td>
<td>Use threads and handlers to partition duties of the application.</td>
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Assessment:

Applications 48%
Group application 20%
Midterm Exam 16%
Final Exam 16%

Grading Scale:
93% and above    A
90-92%           A-
87-89%           B+
83-86%           B
80-82%           B-
77-79%           C+
73-76%           C
70-72%           C-
67-69%           D+
63-66%           D
60-62%           D-
59% and below    E

Grading Policies:

● On-time application: an application is on-time if it is submitted via Blackboard by 5pm on the day it is due.
● Late application: an application is late if it is submitted via Blackboard between:
  - 5pm on the day it is due, and
  - Two days later at 11:59pm.
A late application will be marked down 20%.
● Too-late application: an application will not be accepted after the late application period.

Religious Holidays:

Because of the extraordinary variety of religious affiliations of the University student body and staff, the Academic Calendar makes no provisions for religious holidays. However, it is University policy to respect the faith and religious obligations of the individual. Students with classes or examinations that conflict with their religious observances are expected to notify their instructors well in advance so that mutually agreeable alternatives may be worked out.

Student Disabilities Services:

● If you have a documented disability that requires accommodations, you will need to register with Student Disability Services for coordination of your academic accommodations. The Student Disability Services (SDS) office is located in the Adamany Undergraduate Library. The SDS telephone number is 313-577-1851 or 313-202-4216 (Videophone use only). Once your accommodation is in place, someone can meet with you privately to discuss your special needs. Student Disability Services' mission is to assist the university in creating an accessible community where students with disabilities have an equal opportunity to fully participate in their educational experience at Wayne State University.
● Students who are registered with Student Disability Services and who are eligible for alternate testing accommodations such as extended test time and/or a distraction-reduced environment should present the required test permit to the professor at least one week in
advance of the exam. Federal law requires that a student registered with SDS is entitled to the reasonable accommodations specified in the student’s accommodation letter, which might include allowing the student to take the final exam on a day different than the rest of the class.

Academic Dishonesty - Plagiarism and Cheating:
Academic misbehavior means any activity that tends to compromise the academic integrity of the institution or subvert the education process. All forms of academic misbehavior are prohibited at Wayne State University, as outlined in the Student Code of Conduct (http://www.doso.wayne.edu/student-conduct-services.html). Students who commit or assist in committing dishonest acts are subject to downgrading (to a failing grade for the test, paper, or other course-related activity in question, or for the entire course) and/or additional sanctions as described in the Student Code of Conduct.

- **Cheating:** Intentionally using or attempting to use, or intentionally providing or attempting to provide, unauthorized materials, information or assistance in any academic exercise. Examples include: (a) copying from another student’s test paper; (b) allowing another student to copy from a test paper; (c) using unauthorized material such as a "cheat sheet" during an exam.
- **Fabrication:** Intentional and unauthorized falsification of any information or citation. Examples include: (a) citation of information not taken from the source indicated; (b) listing sources in a bibliography not used in a research paper.
- **Plagiarism:** To take and use another’s words or ideas as one’s own. Examples include: (a) failure to use appropriate referencing when using the words or ideas of other persons; (b) altering the language, paraphrasing, omitting, rearranging, or forming new combinations of words in an attempt to make the thoughts of another appear as your own.
- **Other** forms of academic misbehavior include, but are not limited to: (a) unauthorized use of resources, or any attempt to limit another student’s access to educational resources, or any attempt to alter equipment so as to lead to an incorrect answer for subsequent users; (b) enlisting the assistance of a substitute in the taking of examinations; (c) violating course rules as defined in the course syllabus or other written information provided to the student; (d) selling, buying or stealing all or part of an un-administered test or answers to the test; (e) changing or altering a grade on a test or other academic grade records.

Course Drops and Withdrawals: In the first two weeks of the (full) term, students can drop this class and receive 100% tuition and course fee cancellation. After the end of the second week there is no tuition or fee cancellation. Students who wish to withdraw from the class can initiate a withdrawal request on Pipeline. You will receive a transcript notation of WP (passing), WF (failing), or WN (no graded work) at the time of withdrawal. No withdrawals can be initiated after the end of the tenth week. Students enrolled in the 10th week and beyond will receive a grade. Because withdrawing from courses may have negative academic and financial consequences, students considering course withdrawal should make sure they fully understand all the consequences before taking this step. More information on this can be found at: http://reg.wayne.edu/pdf-policies/students.pdf

Student services:
The Academic Success Center (1600 Undergraduate Library) assists students with content in select courses and in strengthening study skills. Visit [www.success.wayne.edu](http://www.success.wayne.edu) for schedules and information on study skills workshops, tutoring and supplemental instruction (primarily in 1000 and 2000 level courses).

The Writing Center is located on the 2nd floor of the Undergraduate Library and provides individual tutoring consultations free of charge. Visit [http://clasweb.clas.wayne.edu/writing](http://clasweb.clas.wayne.edu/writing) to obtain information on tutors, appointments, and the type of help they can provide.

**Class recordings:**
Students need prior written permission from the instructor before recording any portion of this class. If permission is granted, the audio and/or video recording is to be used only for the student’s personal instructional use. Such recordings are not intended for a wider public audience, such as postings to the internet or sharing with others. Students registered with Student Disabilities Services (SDS) who wish to record class materials must present their specific accommodation to the instructor, who will subsequently comply with the request unless there is some specific reason why s/he cannot, such as discussion of confidential or protected information.